Curriculum Vitae

Kuan-Fu Feng 馮冠芙

Postdoctoral scholar

Earth and Space Sciences, University of Washington

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Research Interest

Spatiotemporal seismic velocity changes | Seismic noise interferometry | Volcano seismology

Research experience

2023/06 –	Postdoctoral scholar, Earth and Space Sciences, University of Washington, US
2022/06 - 2023/05	Postdoctoral scholar, Geology and Geophysics, University of Utah, US
2022/01 - 2022/05	Postdoctoral scholar, Institute of Earth Sciences, Academia Sinica, Taiwan
2016/10 - 2017/08	Research assistant, Institute of Earth Sciences, Academia Sinica, Taiwan
2014/02 - 2014/06	Research assistant, National Chung Cheng University, Taiwan

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Education	
2017/09 - 2022/01	Ph.D., Geosciences, National Taiwan University, Taiwan
	Supervisor: Dr. Hsin-Hua Huang and Dr. Yih-Min Wu
2014/09 - 2016/06	M.S., Geosciences, National Taiwan University, Taiwan
	Supervisor: Dr. Yih-Min Wu
2010/09 - 2014/01	B.S. , Earth and Environment Sciences, National Chung Cheng University, Taiwan

Journal article

- Feng, K.-F.*, H.-H. Huang*, Ya-Ju Hsu and Y.-M. Wu (2021), Controls on seasonal variations of crustal seismic velocity in Taiwan using single-station cross-component analysis of ambient noise interferometry, Geophys. Res., Solid Earth, e2021]B022650. J. https://doi.org/10.1029/2021JB022650.
- Hsu, Y.-F., H.-H. Huang*, M.-H. Huang, V. C. Tsai, R. Y. Chuang, **K.-F. Feng** and S.-H. Lin (**2020**), Evidence for Fluid Migration During the 2016 Meinong Taiwan Aftershock Sequence, J. Geophys. Res., Solid Earth, 125(9), e2020JB019994. https://doi.org/10.1029/2020JB019994.
- Feng, K.-F., H.-H. Huang* and Y.-M. Wu (2020), Detecting pre-eruptive magmatic processes of the 2018 eruption at Kilauea, Hawaii volcano with ambient noise interferometry. Earth, Planets and Space, 72:74. https://doi.org/10.1186/s40623-020-01199-x
- Lee, S.-J.*, T.-C. Lin, K.-F. Feng, and T.-I. Liu (2018), Composite megathrust rupture from deep interplate to trench of the 2016 Solomon Islands earthquake. Geophysical Research Letters, 45(2), 674-681. https://doi.org/10.1002/2017GL076347
- Brown, D.*, Y.-M. Wu, K.-F. Feng, W.-A. Chao, and H.-H. Huang (2015), Imaging high-pressure rock

Last updated on 2023/06

Selected Conference Presentation

2023 GAGE/SAGE 2023 Community Science Workshop, Pasadena, California

Investigating seismic velocity response to near-surface hydrological variations in Utah, United States. <u>Abstract no. 100</u> (Poster)

2022 American Geophysical Union (AGU) Fall Meeting, Chicago

Investigating near-surface hydrological responses on crustal seismic velocity variations in subtropical and semi-arid regions. <u>Abstract S15D-0230</u> (Poster)

2022 The 5th Taiwan Earthquake Center (TEC) Annual Meeting, Taiwan

A Noise-Based Monitoring System of Crustal Seismic Velocity Changes in Taiwan. (Oral)

2021 American Geophysical Union (AGU) Fall Meeting, ONLINE

Assessment of controlling factors on seasonal variations of crustal seismic velocity in Taiwan using ambient noise single-station cross-component analysis. (Poster)

2021 Geological and Geophysical Annual Meeting, Taiwan

- 1) Revealing seasonal crustal seismic velocity variations in Taiwan with single-station cross-component analysis. <u>Abstract S3-O-01. Session: S3</u> (Oral)
- 2) Co-seismic variations in crustal seismic velocity related to M6+ earthquakes in Taiwan. <u>Abstract S3-PC-006</u> (Poster)

2021 European Geosciences Union (EGU) Annual Meeting, ONLINE

Revealing seasonal crustal seismic velocity variations in Taiwan with single-station cross-component analysis. <u>Abstract: EGU2021-7010. Session: SM3.1</u> (Oral)

2020 Geological and Geophysical Annual Meeting, Taiwan

Single-station cross-component analysis of ambient noise reveals seasonal crustal seismic velocity variations in Taiwan. <u>Abstract S3-0-02. Session: S3</u> (Oral)

2019 American Geophysical Union (AGU) Fall Meeting, California

Detection of a precursory phase of the 2018 magma eruption in the Lower East Rift Zone of Kilauea volcano, Hawaii. <u>Abstract: 508923. Session: V43B-03</u> (Oral)

2019 Workshop on "Frontiers in Seismic Interferometry", Taiwan

Detecting pre-eruptive magmatic process of the 2018 eruption in the Lower East Rift Zone of Kilauea, Hawaii volcano with seismic noise interferometry (Oral)

2019 European Geosciences Union (EGU) Annual Meeting, Vienna

Detection of a precursory phase of the 2018 magma eruption in the Lower East Rift Zone of Kilauea volcano, Hawaii. <u>Abstract: EGU2019-3322</u> (Poster)

2018 The 15th Asia Oceania Geosciences Society (AOGS) Meeting, Hawaii

Near real-time monitoring system of the seismic velocity changes in Taiwan. <u>Abstract SE03-A023</u> (Poster)

2017 American Geophysical Union (AGU) Fall Meeting, New Orleans

Seismogenic structure in Chiayi area, Taiwan: Insight from the 2017 M_L 5.1 Zhongpu earthquake

Thesis and Dissertation

- **Feng, K.-F.** (2022) Noise-based monitoring on crustal seismic velocity variations. *PhD Dissertation, National Taiwan University.* (Supervisor: Dr. Hsin-Hua Huang and Dr. Yih-Min Wu)
- **Feng, K.-F.** (2016) Investigating the uncertainty of time-dependent seismic velocity changes using travel time tomography: a case study of the M_L 6.4 2013 Rueisuei earthquake, Taiwan. *Master Thesis, National Taiwan University.* (Supervisor: Dr. Yih-Min Wu)

Honor and Award

- **2022** Dean's Award, College of Science, National Taiwan University
- 2022 Postdoctoral Research Abroad Fellowship, Ministry of Science and Technology, Taiwan
- **2021** Prof. Yi-Ben Tsai Graduate Student Scholarship, Chinese Taipei Geophysics Society (CGS)
- **2019** Outstanding Student Paper Awards in International Conferences, Earth Science Research Promotion Center (ESRPC)
- **2019** Invited talk at Workshop on Frontiers in Seismic Interferometry
- **2013** Excellent Student Scholarship, Chinese Taipei Geophysical Society
- 2012 Outstanding Student Scholarship, National Chung Cheng University
- **2011** Outstanding Student Scholarship, National Chung Cheng University
- 2010 Outstanding Student Entrance Scholarship, National Chung Cheng University

External professional service

Peer reviewer for Journal Geophysical Research (4)

Peer reviewer for *Nature Communications (1)*

President of Graduate Student Association, Geosciences, National Taiwan University, in 2018

Teaching experience

Teaching assistant in the following graduate-level courses:

- National Taiwan University Geo5073: Time Series Analysis
- National Taiwan University Geo5101: Computer Programming on Geosciences

Teaching assistant in the following undergraduate-level courses:

- National Taiwan University Geo2006: Geophysics